Striction-based Power Monitoring in Space Environment, Phase II

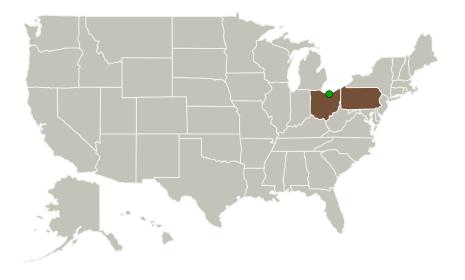


Completed Technology Project (2014 - 2018)

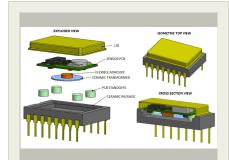
Project Introduction

The program delivers a completely new technology solution to isolation and sensing of power flow (current and voltage). Based on striction materials technology, these small isolation and sensing devices replace Opto-isolation, Hall-effect and Magnetic Transformer isolation and sensing with a lower cost and lower risk solution. The elimination of optical, processor and magnetic components in the design means that these devices are inherently both rad hard and EMI immune. The technology provides superior voltage isolation (ground loop elimination) in a smaller package size. They also will be capable of reliably operating over significantly wider temperature ranges (-55C to 200C) than is readily available to most NASA missions.

Primary U.S. Work Locations and Key Partners



Organizations Performing Work	Role	Туре	Location
QorTek Inc	Lead Organization	Industry Small Disadvantaged Business (SDB)	Williamsport, Pennsylvania
Glenn Research Center(GRC)	Supporting Organization	NASA Center	Cleveland, Ohio



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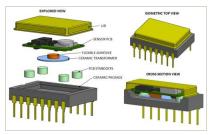
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Primary U.S. Work Locations		
Ohio	Pennsylvania	

Images



Briefing Chart Image

Striction-based Power Monitoring in Space Environment, Phase II (https://techport.nasa.gov/imag e/131040)

Organizational Responsibility

Responsible Mission Directorate:

Space Technology Mission Directorate (STMD)

Lead Organization:

QorTek Inc

Responsible Program:

Small Business Innovation Research/Small Business Tech Transfer

Project Management

Program Director:

Jason L Kessler

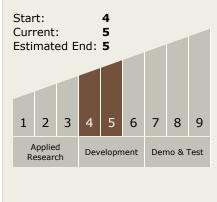
Program Manager:

Carlos Torrez

Principal Investigator:

Gareth J Knowles

Technology Maturity (TRL)





Small Business Innovation Research/Small Business Tech Transfer

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Completed Technology Project (2014 - 2018)

Technology Areas

Primary:

- TX03 Aerospace Power and Energy Storage
 - ☐ TX03.3 Power

 Management and

 Distribution
 - ☐ TX03.3.1 Management and Control

Target Destinations

The Sun, Earth, The Moon, Mars, Others Inside the Solar System, Outside the Solar System

